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**BOYLE ENGINEERING CORPORATION**

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Mr. Lester Snow, Executive Director  
CAL FED BAY-DELTA PROGRAM  
1416 Ninth Street, Suite 1155  
Sacramento, CA 95814

February 19, 1996

**Comments on Draft Alternatives**

Dear Lester:

Here are just a few comments based on a quick review of the Twenty Draft Alternatives:

1. There needs to be better quantification of what each alternative will deliver for each of the four program objectives — if not in absolute terms, then at least relative to each other — see suggested evaluation graphic attached. This provides a basis for the most effective preliminary alternatives to be reduced to a “optimized” short list.
2. Alternative 1 (Reduce Delta Diversion with Demand Management) indicates that about 5.0-5.5 maf/yr. can be realized by Conservation BMP, Reclamation, and Land Retirement. What does this mean? Is this “new” water that can be reallocated for in-Delta needs? And exports reduced? Why are there estimates stated in Alternative 1 but not in the other alternatives with similar programs? Should all alternatives provide order-of-magnitude “new water” yield for in-Delta or export requirements?
3. Some of the alternatives will definitely conserve water which is now “wasted” as “carriage water”. I believe that an average of about 0.6-0.7 maf/yr. can potentially be saved with several alternatives (8, 10, 11, 16, etc.) and, more important, can provide for dry-year in-Delta needs if not required for carriage water. This is “new” water that should be roughly quantified and discussed as a “benefit” of the alternatives that will achieve this type of result.
4. A minor point: several alternatives refer to “adverse hydrologic conditions in the South Delta”. I believe this really means adverse flow or circulation conditions created by export pumping.

You do not need to respond in writing to my comments but I hope they will contribute to your alternative screening process.

I cannot attend the February 26 workshop but will get any further comments that I might have to you before that date. I also will not be able to attend the March 21 meeting as I will be in

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Washington, DC, attending the WSWC meeting. I need to be there to be sure David Kennedy votes correctly!! Please advise BDAC Co-chairs Mike Madigan and Sunne McPeake that I will miss the March 21 meeting.

Finally, I look forward to seeing you here in Newport Beach for the California Chamber of Commerce Board of Directors meeting on February 29/March 1 at the Four Seasons Hotel.

Best regards,

**Boyle Engineering Corporation**



Thomas S. Maddock, P.E.  
President

Att.

djd/Snow

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